www.mgeups.com

MGE UPS SYSTEMS

Pulsar Evolution UPS
500 to 3000 VA

A sizable evolution

High-Density Power Protection for Servers, Storage Systems and Networking Equipment

Pulsar Evolution Rack and Tower UPSs offer network administrators the high-availability power solution they need.

Compact design and a wide range of installation possibilities
- Ultra-dense Rack versions: just 1U from 500 to 1500 VA and 2U from 2200 to 3000 VA
- Many installation possibilities depending on the model

High availability
- Source redundancy with Pulsar STS
- Extended backup times with 2U battery extension modules
- HF technology with sinewave output and wide input voltage tolerances
- Hot-swappable batteries

Advanced administration
- USB and Serial communications as standard
- SNMP and Web-based remote supervision
- Programmable outlets for remote reboot and backup time management

THE UNINTERRUPTIBLE POWER PROVIDER

MGE UPS SYSTEMS

The right model for your applications

The evolution of computer networks currently reflects two main trends: increasingly critical applications and ever-higher equipment densities. The result is a growing need for reliable, ultra-compact power-protection solutions.

MGE UPS SYSTEMS meets this need with **Pulsar Evolution,** the ideal high-density power-protection solution for networking equipment, rack-optimized servers, traditional rack and tower servers and network storage systems.

Pulsar Evolution 1U Rack: 500, 800, 1100, 1500 VA.
Pulsar Evolution 2U Rack/Tower: 2200 and 3000 VA.

Pulsar Evolution Tower:
800, 1100 and 1500 VA.

Selection guide

Applications	***Best choices***
Rackable or stackable networking equipment Individual or group protection of hubs, switches, routers.	**Pulsar Evolution** Rack 500/800/1100/1500
1 to 20 rack-optimized servers	**Pulsar Evolution** Rack 500/800/1100/1500/2000/3000/3000XL
Network storage (NAS/SAN)	
- Network storage subsystems	**Pulsar Evolution** Rack 500/800/1100/1500
- Complete network storage systems	**Pulsar Evolution** Rack 2200/3000/3000XL
1 to 10 tower servers	**Pulsar Evolution** Tower 800/1100/1500/2000/3000/3000XL
Extended backup times	
Telecom equipment	**Pulsar Evolution** 2200 & 3000 with 1 to 3 EXB battery extension modules: up to 2 hours at 3000 VA or 4 hours at 1500 VA.
	Pulsar Evolution 3000XL with 4 to12 EXB battery extension modules: up to 4.5 hours at 3000 VA or 10 hours at 1500 VA

Multiple installation possibilities

Pulsar Evolution is not only the most compact solution on the market, it also offers the widest range of installation possibilities.

And all mounting accessories come with every UPS.

Pulsar Evolution *500*
rackable, stackable, tower configuration or wall-mount

Pulsar Evolution Tower
800/1100/1500: vertical or flat

Pulsar Evolution Rack *800/1100/1500*
rack model: rackable or stackable

Pulsar Evolution Rack/Tower *2200/3000*
one model only for tower or 2U rack

Performance and high availability

Power quality

Pulsar Evolution uses a new high-frequency Line-Interactive technology to bring users an ultra-compact UPS that delivers a sinewave output, correcting voltage variations and offering wide input voltage tolerances (up to150V - 294V).

UPS-Driver software, supplied with every UPS, lets you adjust the main operating parameters to ensure compatibility with all situations, in particular with respect to input voltage tolerances and UPS sensitivity.

High availability

- Source redundancy with Pulsar STS

To benefit from redundant power protection, 2 Pulsar Evolution UPSs can be combined via a 1U Pulsar STS module, forming an ultra-compact high-availability power supply solution. For example, the total space required for 2 Pulsar Evolution 1500 Rack UPSs providing source redundancy via a Pulsar STS is just 3U.

- Hot-swappable batteries

In addition, the batteries of all **Pulsar Evolution** UPSs are hot-swappable from the front.

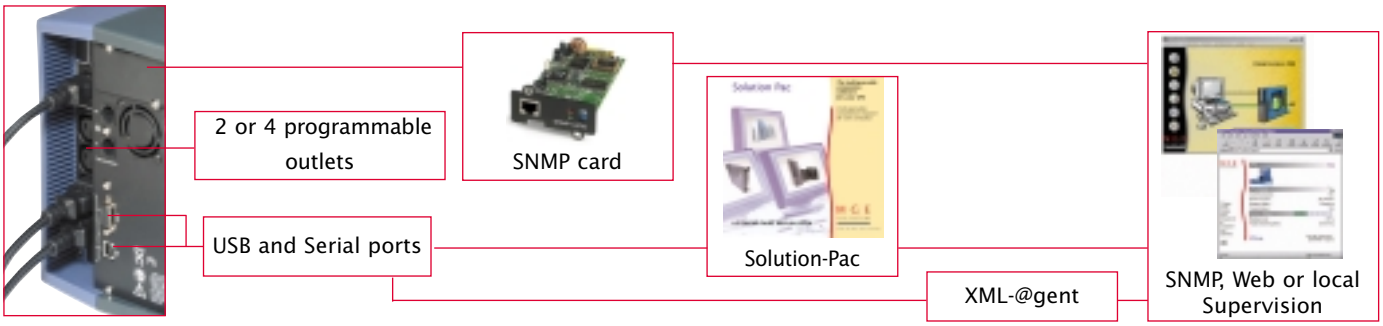
Extended backup times

Pulsar Evolution *2200* and *3000* UPSs can receive 1 to 3 EXB battery extension modules in tower or rack configurations.
For extra-long backup times of more than 4 hours, **Pulsar Evolution** *3000XL* comes with a super-charger making it possible to add 4 to 12 EXB modules or custom battery configurations.

Local or remote administration

Pulsar Evolution UPSs come with a USB port and a Serial port for compatibility with the existing and future machines. The Solution-Pac software suite, with free updates downloadable from our web site at www.mgeups.com, provides advanced power management solutions of configurations ranging from protection of one or more servers to SNMP or Web-based remote monitoring.

And last but not least, Pulsar Evolution UPSs come with 2 or 4 programmable outlets that can be used to reset network devices remotely and allocate longer backup times to the most critical equipment.



Caracteristics

Pulsar Evolution UPS	500	800	1100	1500	2200	3000/3000XL
Power VA/W	500/350	800/560	1100/700	1500/1000	2200/1540	3000/2000
Versions	1U Rack	Mini-Tower and 1U Rack			Versatile Tower/2U Rack	
Installation possibilities	Rackable, stackable, vertical tower or wall-mount	Mini-Tower version: vertical or horizontal Rack version: rackable or stackable			Rackable, stackable or vertical tower with support base	
Number of IEC 320 outlets	4	4	4	4	8	8
Including Powershare outlets	2	2	2	2	2 x 2	2 x 2
Battery extension (EXB modules)	–	–	–	–	From 1 to 3 EXBs (1 to 12 for 3000XL)	
Performances						
Technology	High-Frequency Line-Interactive					
Automatic voltage regulation	Booster/Fader					
Output voltage waveform	Sinewave					
Input voltage tolerances	160V/294V, adjustable to 150V/294V via supplied UPS-Driver software					
Frequency	50/60 Hz, auto-select					
Output voltage on battery power	230V (adjustable to 200/220/240V via supplied UPS-Driver software)					
Features						
Automatic battery test	Weekly (interval adjustable via supplied UPS-Driver software)					
Hot swappable batteries	◗	◗	◗	◗	◗	◗
Cold start	◗	◗	◗	◗	◗	◗
Deep discharge protection	◗	◗	◗	◗	◗	◗
UPS-Driver for Windows	Settings: Input voltage tolerances, Sensitivity, Battery test, ON/OFF conditions					
Data line protection	Surge protection for RJ45 network connection					
Network Administration/Monitoring						
Communications	1 USB port + 1 Serial port					
Software supplied (Solution-Pac CD)	Including local power management software and SNMP proxy-agents for Windows 2000/NT/98 Linux, Netware, OpenServer, Unixware, SUN Solaris, IBM AIX, HP UX, Compaq Tru64, etc.					
Web-based monitoring	XML-@gent (October 2001)					
Spare slots	1 slot for optional SNMP or status indication card					
Remote indications	Optional UPS Control remote display					
Standards						
Safety	EN 50091-1-1/EN60950(RD),IEC 60950,TÜV GS-Mark					
Electromagnetic compatibility	EN 50091-2,EN 50022/B,IEC 62040-2,IEC 61000-3-2,IEC 61000-3-3					
Design, production and services	ISO 9001					
Marking	CE, TÜV GS-Mark					
Associated services						
3-year extended warranty	Optional Warranty+ contract (depending on country)					

Dimensions, weight and ref.	500	800	1100	1500	2200	3000/3000XL
Tower dimensions (HxWxD in mm)	–	150x237x415		150x237x483	–	–
Rack dimensions (HxWxD in mm)	44(1U)x438x353	44(1U)x438x499		44(1U)x438x522	88(2U)x438x640	
Tower/Rack weights (in kg)	– / 9	10,5/15,5	11,5/16	15/19	33,9	36,5 (XL: 20,8)
EXB module weight	–	–	–	–	41,9	
Accessories supplied with Rack versions:	removable and repositionable 19" rack-mount brackets, universal telescopic rails, mounting hardware kit, rear attachment, cable lock system					
Tower ref.	–	66226	66228	66230	–	–
Rack ref.	66225	66227	66229	66231	–	–
Tower convertible to Rack ref.	–	–	–	–	66232	66233/66234
EXB module ref.	66235					

Pulsar Evolution *3000*

Repositionable logo and battery access plate

USB communications port

RS232 communications port

Automatic recognition of battery extensions

Data line protection

Slot for optional communications card

Connection of additional battery modules

Group of 4 outlets for equipment connection + 2 groups of 2 programmable outlets

Battery charge level

Complete user interface:
- on AC input / on battery
- booster/fader mode
- programmable outlet status
- battery replacement required or UPS fault

Power consumption

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